

# STRUCTURES<sup>®</sup>



This STRUCTURES™ product is backed by a 20-year limited warranty.  
For more information, visit:

[www.maloufsleep.com](http://www.maloufsleep.com)

[WWW.MALOUPSLEEP.COM](http://WWW.MALOUPSLEEP.COM) • [CUSTOMERSERVICE@MALOUPSLEEP.COM](mailto:CUSTOMERSERVICE@MALOUPSLEEP.COM) • 800.517.7179

MALOUF<sup>®</sup>

## STRUCTURES<sup>®</sup> OWNER'S MANUAL E450 ADJUSTABLE BASE



## WARNINGS



**IMPORTANT: PLEASE READ ALL SAFETY INSTRUCTIONS THOROUGHLY BEFORE USING THIS PRODUCT. SAVE THESE INSTRUCTIONS.**

### BEFORE USE

- Carefully remove packaging. Take care not to damage the bed frame or any included parts.
- Carefully read and follow the set up and installation instructions included with the product.

### ELECTRICAL

- This product is for use on a standard 120-volt circuit.
- Always use a grounded, electrical surge protection device with this product. This product should be plugged directly into the surge protection device and the surge protection device should be plugged directly into a wall outlet.
- Only connect this product to a properly grounded outlet.
- Always unplug this bed from the electrical outlet before cleaning or servicing.
- Never operate with a damaged cord or plug. Keep the cord away from this product's moving parts.
- Keep the cord away from heated surfaces.
- Do not use this product outdoors.

### SMALL CHILDREN / PETS

- Immediately dispose of all packing materials that may pose a suffocation risk.
- Do not allow children or pets to play on or under the bed. Children should not operate this product without adult supervision.

### PACEMAKERS

- Some pacemakers may detect motion by this product as a false sense of movement and/or exercise. This may or may not affect your pacemaker. Talk to a physician to address any concerns.

### HOME USE / HOSPITAL DISCLAIMER

- This product is designed solely for in-home use and not as a hospital bed. The product does not meet hospital standards. Do not use with oxygen or other flammable gasses.

### WEIGHT RESTRICTIONS

- The recommended weight restrictions for the STRUCTURES<sup>™</sup> E450 Adjustable Base are as follows: (all weights include the weight of the mattress and bedding).

*Twin: 850 lbs. / Full: 850 lbs. / Twin XL: 850 lbs. / Queen: 850 lbs. / Split Beds: 850 lbs. per side*

- This product will support the recommended weight limits when weight is distributed evenly across the base. This product is not designed to support or lift this amount in the head or foot sections alone. Consumers should not enter or exit the bed when any portion of it is in the raised position. Do not sit on the head or foot sections while in the raised position. Exceeding the recommended weight restrictions or other misuse of this product could damage the bed and void the warranty.

## PRODUCT RATINGS

**IMPORTANT: USE THIS PRODUCT ONLY AS DESCRIBED IN THESE INSTRUCTIONS. DO NOT MODIFY ANY PARTS OR COMPONENTS.**

### MOTOR RATINGS

- The STRUCTURES<sup>™</sup> E450 Adjustable Base motors are not designed to operate for more than two [2] continuous minutes within an eighteen [18] minute time period. Exceeding this rating will shorten the life of the motors, and will void the warranty.

### POWER RATINGS

- **INPUT:** AC 100-240V - 50/60Hz, 1.5 Amp
- **OUTPUT:** DC 29V-2A
- This product is designed to have no maintenance requirements by the user. Please do not open any motor compartments, alter the wiring, modify the base, or change the product in any way as it will void the warranty.

## FCC COMPLIANCE

- Operates on 2.4 GHz frequency transmitter.
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- To comply with the FCC RF exposure requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirement and void user's right to operate the device.

For any questions or concerns regarding this product please contact MALOUF<sup>®</sup> directly:

[WWW.MALOUFSLEEP.COM](http://WWW.MALOUFSLEEP.COM) • [CUSTOMERSERVICE@MALOUFSLEEP.COM](mailto:CUSTOMERSERVICE@MALOUFSLEEP.COM) • 800.517.7179

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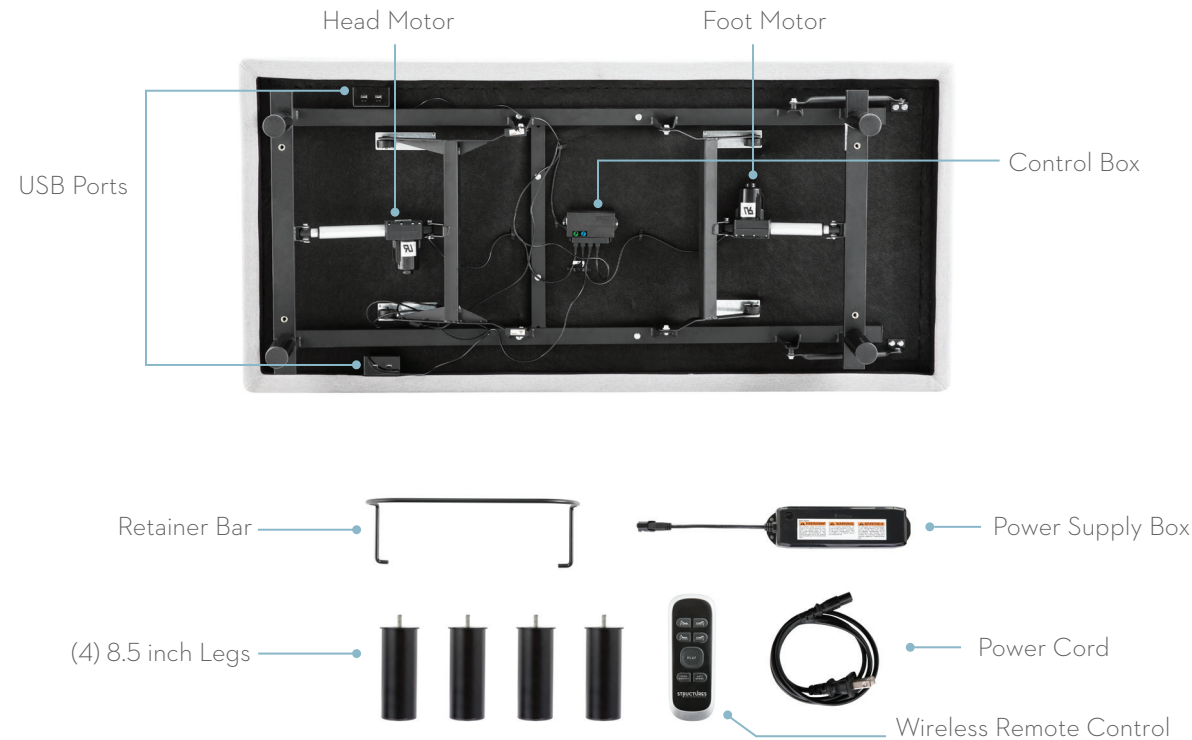
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## OVERVIEW

### Get to know your product

Before beginning assembly of the STRUCTURES<sup>™</sup> E450 Adjustable Base, please take a moment to familiarize yourself with the parts and location of components. See the adjacent image for a detailed overview.

If any parts or components are missing, or are different than shown in the adjacent image, do not attempt to complete the assembly process and contact customer support: 800.517.7179 / customerservice@maloufsleep.com

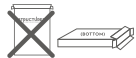


## ASSEMBLY

### Before you begin...



A minimum of two people are required to assemble this adjustable base.



Open box on the floor in the flat position, bottom facing up, to avoid damage.

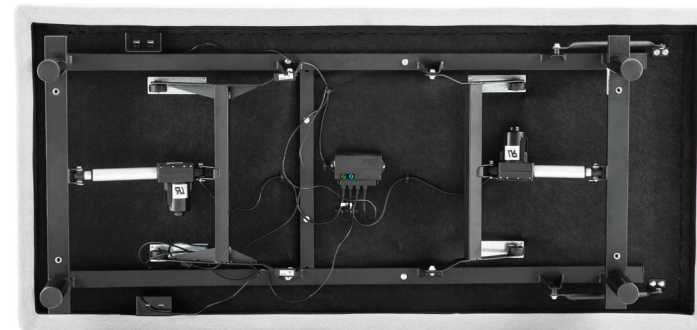
### Step 1:

Place the box in the room the bed will be used with the bottom of the box facing up. Carefully remove packaging material, taking care not to puncture the box with any sharp objects.

### Step 2:

Remove the bed base from the box and set mattress (top) side down on the floor (see *image A*). Remove all plastic and zip ties. All components and parts are located in the underside of the base. Remove attached parts and set aside in preparation for assembly (see *image B*). Check to make sure all parts have been included and are not damaged (see *page 2* for a list of all parts and components).

A



B



## ASSEMBLY

### Step 3:

Hand tighten all four legs into the bed frame until secure. Note that there are two location options for each leg, an outside placement or an inside placement. Tighten the legs in the location of your choosing, maintaining a consistent inside or outside location throughout. Take care not to over tighten (see *image A*).

### Step 4:

Install the power cord by connecting the cord jack to the receptacle on the bed motor (see *image B*). Be sure the cord is connected completely and securely.

A



B



## ASSEMBLY

### Step 5:

With two to four people, lift the bed by the metal frame and turn it over so the mattress (top) side is facing up (see *image A*). Take caution not to lift the bed with the fabric, or to use the legs as pivot points causing angled pressure as this may cause damage. Move the bed to the desired location.

A





## ASSEMBLY

### Step 6:

To install the mattress retainer bar, insert one end of the retainer bar in its respective slot until it slides fully into place (see *image A*). Flex retainer bar to insert the other end on the other side. The retainer bar is now installed.

### Step 7:

Plug the power cord into the wall outlet and run the test on pages 23-24 of this manual. You may want to familiarize yourself with the remote control functions (*pages 11 - 14*) prior to running the test.

A



## REMOTE CONTROL

### Overview

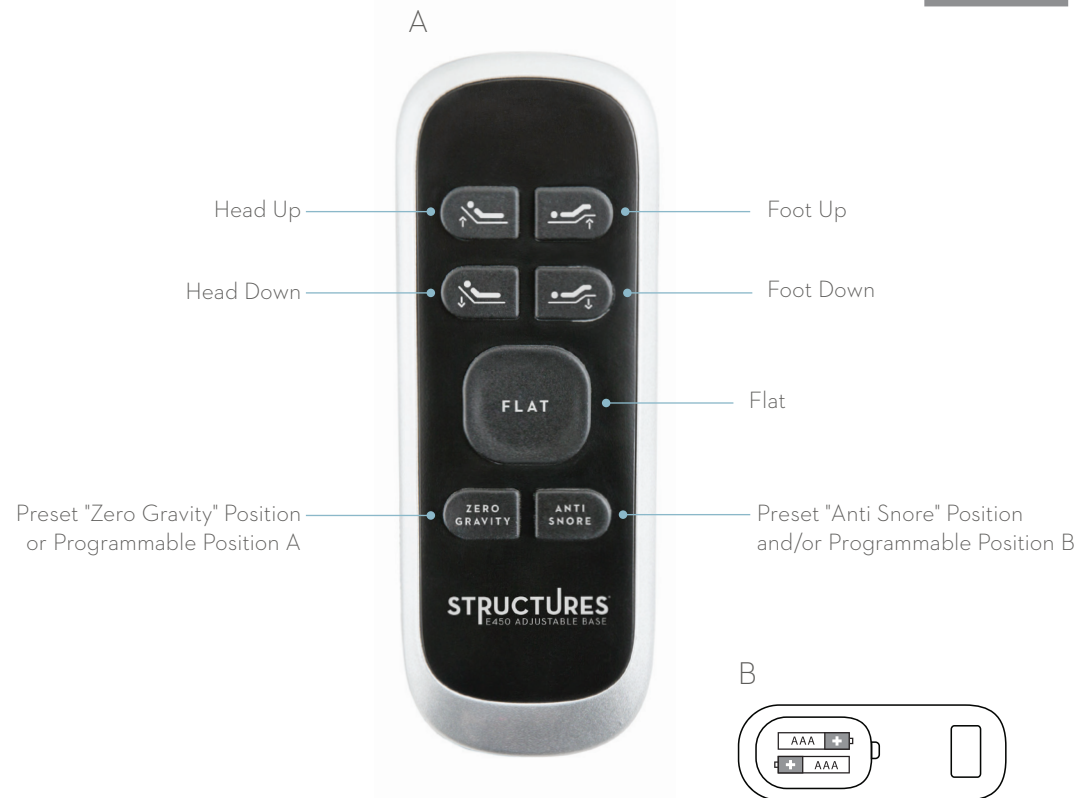
All of the functions of the bed can be operated with the remote control. The remote control comes with pre-programmed buttons that will automatically adjust when pressed, or you can manually control adjustments using the arrow buttons on the remote control. See the diagram to the right (*image A*) for a complete list of remote control functions.

### Remote Control Battery Installation:

Remove the battery cover on the back side of the remote control. Insert two AAA batteries (included) as shown (see *image B*).

### Programmable Buttons:

To program the remote preset buttons, press and hold the "FLAT" button and the "ZERO GRAVITY" button simultaneously. The position is now saved, accessible by pressing the "ZERO GRAVITY" button. To adjust the position, repeat this process. Repeat the same process to set the "ANTI SNORE" button to desired position.



## REMOTE CONTROL PAIRING

### Overview

The original remote that comes in the box is already paired to the foundation. No further action is required. In the event that the remote is not paired with the base, begin by checking the following:

#### Step 1:

Ensure the remote batteries are functioning. Replace if necessary.

#### Step 2:

Ensure the power cord is plugged into a powered source.

#### Step 3:

Press and hold the HEAD CONTROL RAISE and FOOT CONTROL RAISE buttons simultaneously (see image A). Then ALSO press and hold the blue button on the control box cord until you hear 2 beeps (see image B). The remote is now paired.

A



B



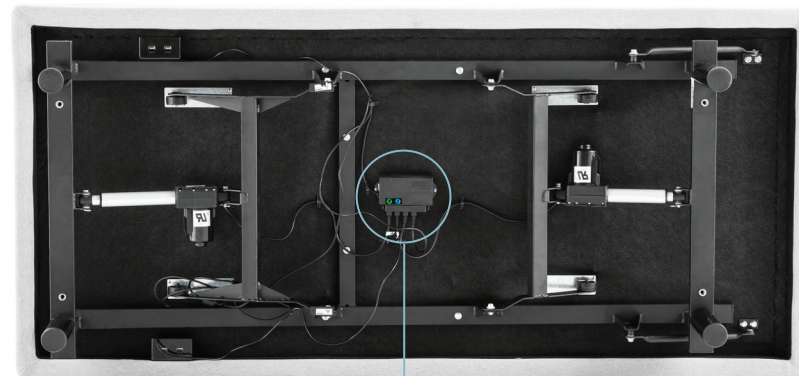
The blue pairing button can also be used to lower the base to the flat position in case of an emergency. (see *battery backup* section on page 19 - 20)

## ELECTRICAL COMPONENT SETUP

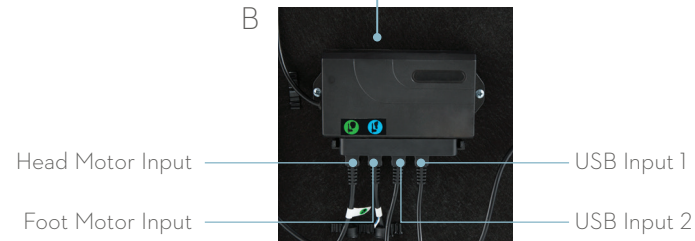
### Overview

The electronic components are pre-installed and no assembly is necessary, however, some input locations are important for proper set up and functionality (see *images A & B* to become familiar with input, setting and part locations).

A



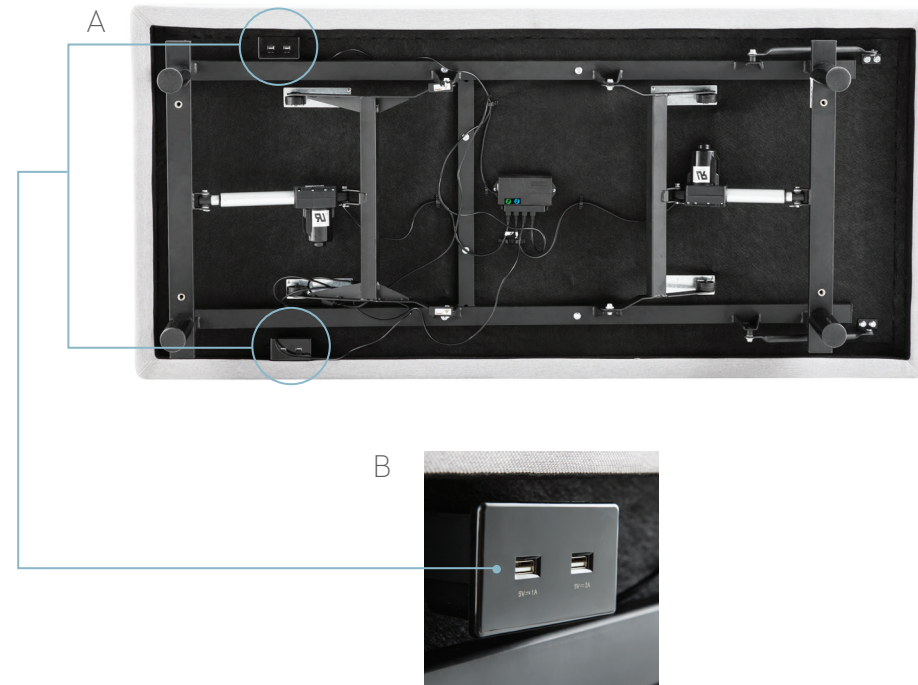
B



## ELECTRICAL COMPONENT SETUP

### USB Ports

USB ports are located under the head portion of the bed base at two locations (see *image B*). To access the USB ports, press the “HEAD UP” button to raise the bed and reveal the USB ports. Once your device is plugged into the USB port, you may lower or adjust the bed to your preference.



## BACKUP BATTERY

### Overview

**Important:** The backup battery is only to be used in case of a power outage. Batteries are not to be used for normal operation of the bed. The backup battery will not support repeated movement for an extended period of time.

### Backup Battery Use:

Use two 9V batteries only (not included). If a power outage occurs, install the 9V batteries into the power supply to allow temporary power to the base (see image A).

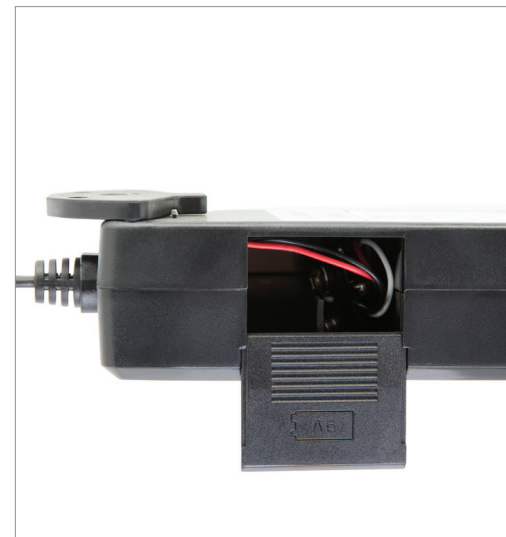
### Installing Batteries:

Unplug the power cord from the outlet and remove the cover from the compartment on the underside of the power supply (see image B). Place two 9V batteries inside, close the cover and plug the power cord back into the wall outlet. The backup battery will not support repeated movement for extended periods of time. **After power is restored, unplug power cord, remove the batteries, then plug the power cord back into the wall for normal use.**

A



B



## SYNCHRONIZING TWO BASES

To pair one remote to two bases:

### Step 1:

Ensure both bases (A & B) are plugged into a power source.

### Step 2:

Make sure Remote A was already paired to Base A and Remote B was paired to Base B. If not, pair them by following the instructions found on pages 13 - 14.

### Step 3:

After remotes are paired to their respective bases, pair Remote A to Base B (see pages 13 - 14). Both bases can now be operated by Remote A.

*Only one remote can be paired to both bases.*



## TEST ALL FUNCTIONS

### Overview

To ensure proper setup, use remote and test all functions for 3 seconds.

**Important:** Always return the base to the flat position when switching between preset options.

- ☐ Head Up
- ☐ Head Down
- ☐ Foot Up
- ☐ Foot Down
- ☐ Flat
- ☐ Zero Gravity
- ☐ Anti-Snore





## ADDITIONAL HELP

### If one or more functions of the bed have stopped working:

Check under the bed base to verify the wired connections are secure and there are no cords or bedding obstructing the movement of the base.

### The remote control won't operate the bed functions:

Make sure the batteries are installed correctly or install two new AAA batteries into the remote control. Ensure the remote control is synced with the control box on the bed (see *pages 13-14*).

### No functions of the bed will operate:

Check to ensure the power cord is properly connected.

Unplug the base for 1 hour to reset the electronic components.

Plug base into a different electrical outlet, or test current outlet with another working appliance. A grounded electrical surge protector is recommended with use of this product.

**For further assistance contact us at:** 800.517.7179 / [customerservice@maloufsleep.com](mailto:customerservice@maloufsleep.com)

## NOTES:

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## 20 YEAR LIMITED WARRANTY

### WHAT IS COVERED

This warranty covers any defects in materials or workmanship under the conditions and exceptions stated below.

### HOW LONG COVERAGE LASTS

This warranty runs for up to 20 years from the date of purchase, according to the tiers set forth below.

### WHAT MALOUF<sup>®</sup> WILL DO

#### YEAR 1:

Warranty covers defects in the workmanship or materials for a period of 1 year from the date of purchase. Malouf<sup>®</sup> will send replacement parts for any defective part to the purchaser, and Malouf<sup>®</sup> will pay all authorized labor and transportation costs associated with the repair or replacement of any parts.

#### YEARS 2-5:

During the years 2 - 5 from the date of purchase, Malouf<sup>®</sup> will offer replacement parts for any defective part to the purchaser. The purchaser shall bear all service, transportation, labor, and shipping costs associated with the repair or replacement of the defective part(s).

#### YEARS 6-20:

During the years 6 - 20, Malouf<sup>®</sup> will offer replacement parts for any mechanical bed part (excluding electronics, electrical components, drive motors, and massage motors). Purchaser shall pay 1/15th of the replacement cost of the defective part multiplied by the number of years since 5 years after the warranty commencement date, and Malouf<sup>®</sup> shall bear the remainder of the cost of the replacement part. The purchaser shall bear all service, transportation, labor, and shipping costs associated with the repair or replacement of the defective part(s).

#### HOW TO GET SERVICE

E-mail "warranty@maloufsleep.com" to submit your warranty claim. Please keep your receipt so that we may process your warranty request.

#### HOW STATE LAW APPLIES

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

*The foregoing warranty shall be exclusive and in lieu of any other warranty, express or implied, including warranties of merchantability and fitness for a particular purpose and all other warranties otherwise arising by operation of law, course of dealing, custom, trade, or otherwise. malouf<sup>®</sup> shall not be liable for any consequential damages or losses arising from the purchase, installation and/or use of this product.*

For any questions or concerns regarding this product please contact MALOUF<sup>®</sup> directly:

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